/15-16

ಕೆ.ಕೆ. ಮಾರ್ಗ 07.
ಬಂಡೆ ಅಭಿವೃದ್ಧಿ.

ಅಂ 263200 ರೂಪಾಯಿ

dive Engineer 25/2/16.
nagpura Division
a Zone, B.B.M.P.
alore-560092

25/02/16

BR-35/27-4/16

M. A. R. 57 (Rule 116)
Measurement Book

No. B

263201

Serial No. Pre-Measurement

Name of Work Improvements to Road ~~From~~ in Maniyannapalya in Ward No 07,

Name of Contractor of nature of Agency Byadarayanapura, Kodigehalli sub-division.

Date of commencement of work → Narayanappa B.C

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Est cost:-	10.00 lakhs.					
	Job code:-	007-16-00005/7.					
	AS No:-	BBMP/EE/BTP/PR/98/15-16, dt: 26-08-15.					
	TS No:-	BBMP/EE/BTP/PR/101/15-16; dt: 26-08-15					
	Agr No:-	BBMP/EE/BTP/Agr/200/15-16; dt: 03-02-16.					
	Work order:-	No. EE/BTP/BBMP/E-PMT/200/15-16, dt: 03-02-16.					
	Tender Amount:-	934817.69.					
	Date of commencement:-	13-03-16					
	Date of completion:-						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Premeasurements recorded on:			17-03-16			
	Item. No. 01:-						
	Removing BS slab of drain and stacking:						
	Main road:-						
		01	30.00	0.60	-	= 18.00	
		01	12.00	0.60	-	= 7.20	
		01	30.00	0.60	-	= 18.00	
		01	30.00	0.60	-	= 18.00	
		01	5.00	0.60	-	= 3.00	
		01	19.50	0.60	-	= 11.70	
						75.90	Sqm.
							Apply N.D AE(7)
	Premeasurements recorded on:			21-03-16			
	Item. No. 03:-						
	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto						2mts and an

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	average lift upto o
	dressed, the disposed
	of clods complete a
	1st cross road:-
	2nd cross road:-
	Cross roads:

OOK

Depth 6	Contents 7	Reference to last Measurement 8
-16		
eeking:		
-	= 18.00	
-	= 7.20	
-	= 18.00	
-	= 18.00	
-	= 3.00	
-	= 11.70	Apply N.D AE(7)
	75.90	Sqm.
anual means in ordinary		
al throw upto	2mts and an	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

263202

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.						
	1st cross road:-	01	30.00	4.00	0.15	= 18.00	
		01	12.00	4.00	0.15	= 7.20	
	2nd cross road:-	01	30.00	2.00	0.15	= 9.00	
	cross roads:	01	13.00	3.00	0.15	= 5.85	
		01	15.00	3.00	0.15	= 6.75	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Main road:	01	29.5	3.10	0.15	= 13.72	
	Cross road near coffee board main road.	01	31.00	7.00	0.15	= 32.55	
				Total:-		93.07 cum	
						Mr. Mr. N.P AE(7)	
	Item. No. 11:-						
	Lead for disposal of debris shall be payable at carraige rates by Mechanical means including loading and unloading. From 0.00 to 5.00 Km:						
	Item. No: 03 →	93.07 cum					
						Mr. Mr. N.P AE (7)	

M.

Serial No. .....

Name of Work ..... Fr

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date	Full description, etc, of work	Numbe
1	2	3
	Item No.02:-	
	Refixing stone slabs	01
		01
		01
		01
		01
		01

OOK

th	Depth 6	Contents 7	Reference to last Measurement 8
	0.15 = 13.72		
	0.15 = 32.55		
al:-		93.07 cum	
		MLyLLy. N.D AE(7)	
e	payable at carraige		
	loading and unloading.		

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Pre measurements recorded on: 28-03-16						
	Item No.04:-						
	Providing and constructing non load bearing with cement concrete solid blocks with compressive strength not less than 3.5 newton per sqmm with cement mortar 1:4 with block of size 40x10x20cms (lxbxh) conforming to IS:2185/1965 in super structure including the cost of material labour charges, scaffolding curing complete as specification:						
	1st cross road:	01	30.00	0.4	—	= 12.00	
		01	12.00	0.4	—	= 4.80	
	2nd cross road:	01	20.00	0.4	—	= 8.00	
		01	15.00	0.4	—	= 6.00	
		01	15.00	0.4	—	= 6.00	Arlg LL.N.D AE(7)
						36.80 Sqm.	

M. A. R
Meas

Serial No. .....
Name of Work ..... From...
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Number
1	2 Pre measurements recorded on:	3
	Item No.05:-	
	Scarifying the existing 50mm and disposal of scarifi upto 1000metres complete as	
	1st cross road:	01
		01
	2nd cross road:	01
	Cross roads:	01
		01

K

epth 6	Contents 7	Reference to last Measurement 8
	oad bearing with	
	sive strength not less	
	tar 1:4 with block of	
	2185/1965 in super	
	labous charges,	
:		
=	12.00	
=	4.80	
=	8.00	
=	6.00	
=	6.00	Arlp LL.N.P AE(7)
	36.80 Sq.m.	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

263204

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Premeasurements recorded on:		30	03 16			
	Item No 05:-						
	Scarifying the existing granular road surface to a depth of 50mm and disposal of scarified material within all lifts and leads upto 1600 metres complete as per specifications:						
	1st cross road:	01	30.00	4.00	-	= 120.00	
	~~2nd~~	01	12.00	4.00	-	= 48.00	
	2nd cross road:	01	30.00	2.00	-	= 60.00	
	Cross roads:	01	13.00	3.00	-	= 39.00	
		01	15.00	3.00	-	= 39.00	45.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
		01	19.00	3.00	–	= 57.00	
	cross road near coffee board main road:	01	31.00	7.00	–	= 217.00	
						586.00 Sqm	
						Supply Nil AE(W7)	
	Premeasurements recorded on: 02-04-16						
	Item No.07:-						
	Providing and laying in position plain cement concrete of mix M10 with OPC cement @ 220 kgs with 40mm and down size graded granite metal coarse aggregate @ 0.892 cum and fine aggregates @ 0.465 cum machine mixed, concrete laid in layers not exceeding 15cms, thick well compacted, in foundation and plinth, including cost of all materials, labour, flow of						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Nur
1	2	
	machinery, curing comple	
	1st cross road:	01
		01
	2nd cross road:	01
	Cross roads:	01
		01
		0
	Cross road near coffee board main road:	01

Qty ltd to

th	Contents 7	Reference to last Measurement 8
	= 57.00	
	= 217.00	
	586.00 sqm	
		Multiply ND AE(W7)
	plain cement concrete of	
	mm and down size	
	e 0.892 cum and fine	
	oncrete laid in layers	
	ded, in foundation and	
	labour, flom of	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

263205

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	machinery, curing complete as per specifications:						
	1st cross road:	01	30.00	4.00	0.15	= 18.00	
		01	12.00	4.00	0.15	= 7.20	
	2nd cross road:	01	30.00	2.00	0.15	= 9.00	
	Cross roads:	01	13.00	3.00	0.15	= 5.85	
		01	15.00	3.00	0.15	= 6.75	
		01	30.7	3.00	0.15	= 13.82	
	Cross road near coffee board main road:	01	31.00	7.00	0.15	= 32.55	Multiply ND AE(7)
	Qty ltd to: 93.15 cum:					93.17 cum.	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Premeasurements recorded on: 09-04-16						
	Item No.06:-						
	Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, tom of machinery complete as per specifications:						
	1st cross road:	01	30.00	4.00	-	= 120.00	
		01	12.00	4.00	-	= 48.00	
	2nd cross road:	01	30.00	2.00	-	= 60.00	
	Cross roads:	01	13.00	3.00	-	= 39.00	
		01	15.00	3.00	-	= 45.00	
		01	19.00	3.00	-	= 57.00.	

ML & FC

09/4/16

Assistant Executive Engineer.
Sub Division.

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Cross road near coffee board main road:

OK

Depth 6	Contents 7	Reference to last Measurement 8
h maximum of 6 passes filling in depression of all labour, from of		
s:		
-	= 120.00	
-	= 48.00	
-	= 60.00	
-	= 39.00	
-	= 45.00	
-	= 57.00.	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

263206

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	Cross road near coffee board main road:	1	31.00	7.00	-	= 217.00	
						586.00 sqm	
							Asst Exe Engr AE(T)

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	At the rate of Rs:	4.00	→				2344.00
	Item No.07:-						
	Providing and laying in position plain cement concrete of Mix M10 with OPC cement @ 220 kgs with 40mm and down size graded granite metal coarse aggregates @ 0.893 cum and fine aggregates @ 0.465 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, hire of machinery, curing complete as per specifications:						

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	1 Qty vide pag
	At the rate
	Item No.08:-
	Providing an
	size granite Jelly of
	thick layers and w
	including smooth
	complete (exclusive

OK

Depth 6	Contents 7	Reference to last Measurement 8
		2344.00

plain cement concrete of
40mm and down size
ates @ 0.893 cum and fine
concrete laid in layers
acted, in foundation
ls, labour, HOM of
ecifications:

M. A. R. 57 (Rule 116)
Measurement Book

No. B

263210

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	Qty vide page No: At the rate of Rs:		2633 / 4900.00 →	263205 →	93.15 cum:		456435.00
	Item No 08:- Providing and laying cement concrete using 20mm and down size granite Jelly of ready mix concrete for RCC works laid in 15cm thick layers and well compacted including vibrating curing etc., including smooth finish in CM 1:3, with all lead and lift etc., complete (exclusive of cost of steel, fabrication and plastering						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	charges) Ready mixed concrete for Beams, columns, staircase and Roof with M20:						
	1st cross road:	01	30.00	4.00	0.12	= 14.40	
		01	12.00	4.00	0.12	= 5.76	
	2nd cross road	01	30.00	2.00	0.10	= 6.00	
		01	13.00	3.00	0.10	= 3.90	
		01	15.00	3.00	0.10	= 4.50	
		01	19.00	3.00	0.10	= 5.70	
	Cross road in the office board layout mainrd:	01	31.00	7.00	0.12	= 26.04	
						66.30 cum	
	Qty Ud to 66.24 cum						

C & FC I-8

Executive Engineer
Byatarayanapura Division
Yelahanka Zone, B.B.M.P.
Bangalore - 560 092

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Num
1	2	
	~~Abstg~~ At the rate of	
	Item No-09:-	
	Vacuum de-watering and compaction with st including cost of gener power floater, blade an	
	1st cross road:-	01 01

pth 6	Contents 7	Reference to last Measurement 8
ame, columns, staircase		
2 =	14.40	
2 =	5.76 NSP AE(7)	
0 =	6.00	
0 =	3.90	
0 =	4.50	
0 =	5.70	
2 =	26.04	
	66.30 cum	

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. .....

Name of Work ..... From..... To..... 263211

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	~~Abstg~~ At the rate of Rs:		5456.00 →				361405.00
	Item No-09:-						
	Vacuum de-watering with vacuum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, screed vibratory, power floater, blade and disc etc., with all lead and lift etc.,						
	1st cross road:-	01	30.00	4.00	-	= 120.00	
		01	12.00	4.00	-	= 48.00	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	2nd cross road:	01	30.00	2.00	-	= 60.00	
	Cross roads:	01	13.00	3.00	-	= 39.00	
		01	15.00	3.00	-	= 45.00	
		01	19.00	3.00	-	= 57.00	
	Cross road near coffee board main road:	01	31.00	7.00	-	= 217.00	
						586.00	
	At the rate of Rs: 90.00 → NOR IIE						52740.00
	Item No. 10:- Providing groove cutting for width of 5mm to 10mm and depth						

Serial No. .....
Name of Work ..... Fr
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	Numb
1	2	3
	80mm - 100mm including co machinery, including cost of groove and providing so metal etc., including cos lead and lift charges	
	1st cross road:	01
	Cross roads:	04
	near coffee board main road:	02

DIVISION
R.M.P..

OOK

h	Depth 6	Contents 7	Reference to last Measurement 8
	-	= 60.00	
	-	= 39.00	
	-	= 45.00	
o	-	= 57.00	
oo	-	= 217.00	
		586.00	
			52740.00

eidth of 5mm to 10mm and depth

M. A. R. 57 (Rule 116)
Measurement Book

No. B

263212

Serial No. .....
Name of Work ..... From..... To.....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions: Number 3	Length 4	Breadth 5	Depth 6	Contents 7	Reference to last Measurement 8
	80mm-100mm including cost of cutting machine, generator and hom of machinery, including cost of blade, coolant etc., including cleaning of groove and providing sand and hot bitumen filler and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all directions of engineer incharge.						
	1st crossroad:	06	-	4.00	-	= 24.00	
	crossroads:	04	-	3.00	-	= 12.00	
	near coffee main road:	02	-	3.00	-	= 6.00	
						42.00m.	

Mc Leod Russel
Executive Engineer
Division
P.B.M.P.

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	At the rate of Rs:		99.65 →				4185.30
			GRAND TOTAL →				930867.00
	Asst. Exe. Engr. N.D AE(W7) 25/04/16.						

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಕೊಡಿಗೆಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಪೀಣ್ಯ ಕೈಗಾರಿಕಾ ಪ್ರದೇಶ, ಬಿ.ಡಿ.ಎ.
ಬೆಂಗಳೂರು - 560092

Serial No. ...Royalty charges...
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work
1	2
	Details | Qty | Unit:
1)	40mm | 93.15 | cum:
2)	RMC | 62.4 | cum:
	Total:
	ABSTRACT
1)	40mm Jr = X
2)	RMC = X

	Contents	Reference to last Measurement
h	7	8
		4185.30
		930867.00

M. A. R. 57 (Rule 116)
Measurement Book

No. B

Serial No. Royalty charges: 263213

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

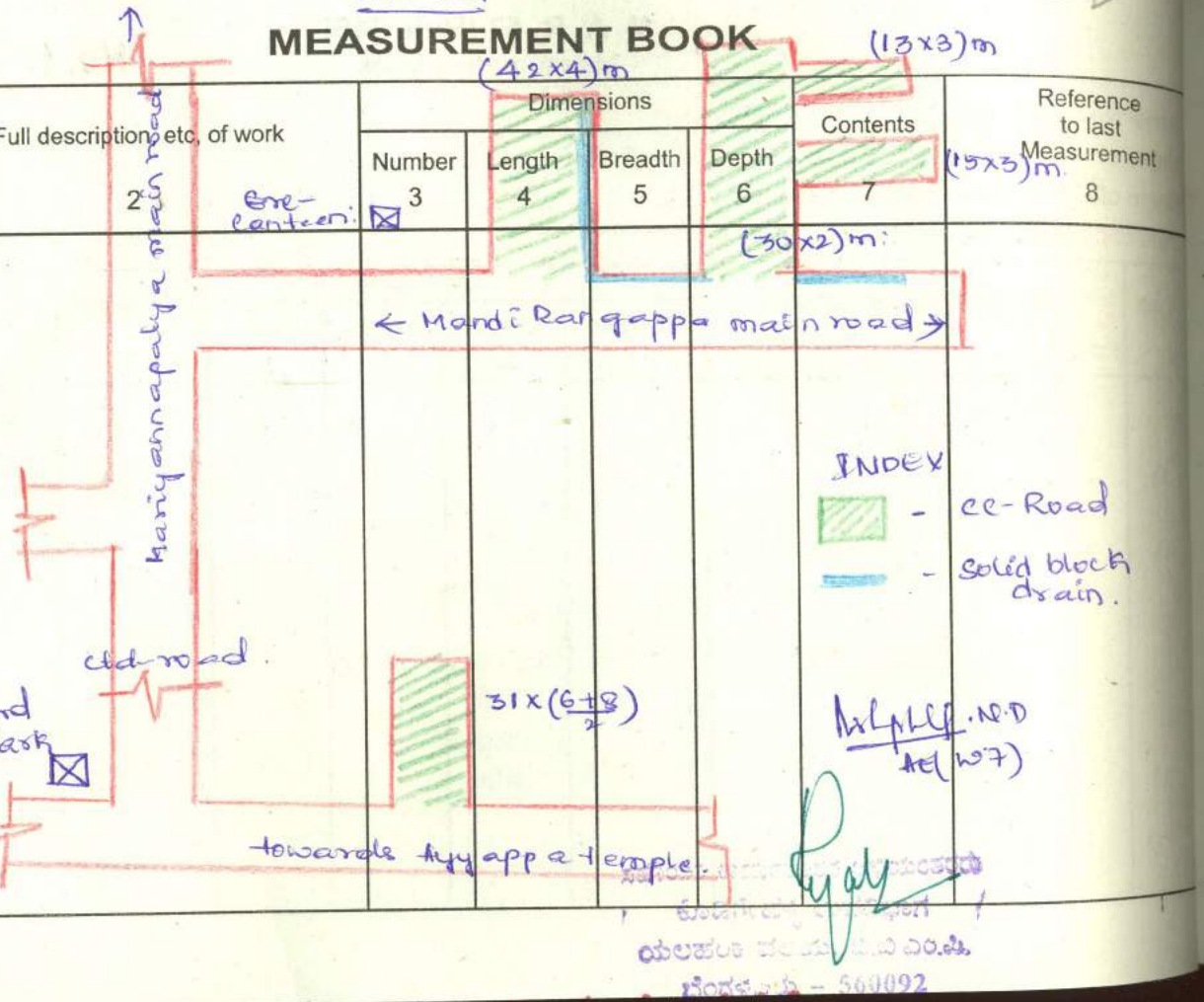
Date of commencement of work .....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3 Jelly	4	5 Sand	6	7 cement	8
	Details | Qty | Unit:	co-eff	Qty	co-eff	Qty	co-eff	Qty:
1)	40mm | 93.15 | cum:						
2)	RMC | 62.4 | cum:						
	Total:						
	ABSTRACT						
1)	40mm Jr = X						
2)	RMC = X					Asst. Engg. N.D	

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

SKETCH



$31 \times \left(\frac{6+8}{2}\right)$

AE (W7)

AE (W7)

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency ....
Date of commencement of work .....

Date	Full description, etc, of work
1	2

CERTIFICATE:-

Certified that the wor

AE (7)

BOOK

(13x3)m

ıs		Contents	Reference to last Measurement
adth 5	Depth 6	7	8
	(30x2)m	(15x3)m	

ppa main road →

INDEX

- cc-Road
- Solid block drain.

M.N.D
AE (W7)

M.N.D
AE (W7)

ಸಹಾಯಕ ಅಭಿಯಂತರರು ಕಾರ್ಯನಿರ್ವಹಿಸುವವರು
ಕೊಡಿಗೇಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ, ಬಿ.ಬಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು - 560092

M. A. R. 57 (Rule 116)
Measurement Book

No. B

263214

Serial No. .....

Name of Work ..... From..... To.....

Name of Contractor of nature of Agency .....

Date of commencement of work .....

Date 1	Full description, etc, of work 2	Dimensions				Contents 7	Reference to last Measurement 8
		Number 3	Length 4	Breadth 5	Depth 6		
	CERTIFICATE:- Certified that the work done by the contractor is satisfactory: M.N.D AE (7) ಸಹಾಯಕ ಅಭಿಯಂತರರು ಕಾರ್ಯನಿರ್ವಹಿಸುವವರು ಕೊಡಿಗೇಹಳ್ಳಿ ಉಪವಿಭಾಗ ಯಲಹಂಕ ವಲಯ, ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬೆಂಗಳೂರು - 560092						

BR-35
22/4/16

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
						IT - 9310.00 VAT - 37235.00 LWF - 9310.00 CBF - 931.00 SB - 11501.00 68287.00	

Audited & Admitted for Rs 930860.00
862573.00
and Rs 68287.00
Accts. Supdt.
Byatarayanapura Dn. BBMP

Executive Engineer
Byatarayanapura Division,
Yelahanka Zone, B.B.M.P.
Bangalore - 560 092
23/5/16.

Serial No. .....
Name of Work .....
Name of Contractor of nature of Agency .....
Date of commencement of work .....

Date	Full description, etc, of work	
1	2	